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**IN THE CLAIMS**

The claims as currently presented and under consideration, are presented below.

1. (Withdrawn): A nucleic acid encoding a modified xylanase comprising a polypeptide having an amino acid sequence as set forth in SEQ ID NO:1, wherein the sequence has at least one substituted amino acid residue at a position selected from the group consisting of: 2, 5, 7, 10, 11, 16, 19, 22, 26, 28, 29, 30, 34, 36, 38, 57, 58, 61, 63, 65, 67, 92, 93, 97, 105, 108, 110, 111, 113, 132, 143, 144, 147, 149, 151, 153, 157, 160, 162, 165, 169, 180, 184, 186, 188, 190 and +191.
2. (Withdrawn): The nucleic acid according to Claim 1, wherein the substitution is selected from the group consisting of: 2, 22, 28, 58, 65, 92, 93, 97, 105, 108, 144, 162, 180, 186 and +191.
3. (Withdrawn): The nucleic acid according to Claim 2, wherein the xylanase has at least one substitution selected from the group consisting of: H22K, S65C, N92C, F93W, N97R, V108H, H144C, H144K, F180Q and S186C.
4. (Withdrawn): The nucleic acid according to Claim 3, wherein the xylanase has the following mutations: F93W, N97R and H144K.
5. (Withdrawn): The nucleic acid according to Claim 3, wherein the xylanase has the following mutations: H144C and N92K.
6. (Withdrawn): The nucleic acid according to Claim 3, wherein the xylanase has the following mutations: F180Q, H144C and N92C.
7. (Withdrawn): The nucleic acid according to Claim 3, wherein the xylanase has the following mutations: H22K and F180Q.
8. (Withdrawn): The nucleic acid according to Claim 3, wherein the xylanase has the following mutations: V108H.

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9. (Withdrawn): The nucleic acid according to Claim 3, wherein the xylanase has the following mutations: S65C and S186C.

10. (Withdrawn): The nucleic acid according to Claim 3, wherein the xylanase has the following mutations: H22K, F180Q, H144C and N92C.

11. (Original): A modified xylanase comprising a polypeptide having an amino acid sequence as set forth in SEQ ID NO:1, wherein the sequence has at least one substituted amino acid residue at a position selected from the group consisting of: 2, 5, 7, 10, 11, 16, 19, 22, 26, 28, 29, 30, 34, 36, 38, 57, 58, 61, 63, 65, 67, 92, 93, 97, 105, 108, 110, 111, 113, 132, 143, 144, 147, 149, 151, 153, 157, 160, 162, 165, 169, 180, 184, 186, 188, 190 and +191.

12. (Original): The xylanase according to Claim 11, wherein the substitution is selected from the group consisting of: 2, 22, 28, 58, 65, 92, 93, 97, 105, 108, 144, 162, 180, 186 and +191.

13. (Original): The xylanase according to Claim 12, wherein the modified xylanase has at least one substitution selected from the group consisting of: H22K, S65C, N92C, F93W, N97R, V108H, H144C, H144K, F180Q and S186C.

14. (Original): The xylanase according to Claim 13, wherein the xylanase has the following mutations: F93W, N97R and H144K.

15. (Original): The xylanase according to Claim 13, wherein the xylanase has the following mutations: H144C and N92K.

16. (Original): The xylanase according to Claim 13, wherein the xylanase has the following mutations: F180Q, H144C and N92C.

17. (Original): The xylanase according to Claim 13, wherein the xylanase has the following mutations: H22K and F180Q.

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18. (Original): The xylanase according to Claim 13, wherein the xylanase has the following mutations: V108H.
19. (Original): The xylanase according to Claim 13, wherein the xylanase has the following mutations: S65C and S186C.
20. (Original): The xylanase according to Claim 13, wherein the xylanase has the following mutations: H22K, F180Q, H144C and N92C.
21. (Original): A modified enzyme, the modified enzyme comprising an amino acid sequence, the amino acid sequence being homologous to the sequence set forth in SEQ ID NO:1, the amino acid sequence having at least one substituted amino acid residue at a position equivalent to a position selected from the group consisting of: 2, 5, 7, 10, 11, 16, 19, 22, 26, 28, 29, 30, 34, 36, 38, 57, 58, 61, 63, 65, 67, 92, 93, 97, 105, 108, 110, 111, 113, 132, 143, 144, 147, 149, 151, 153, 157, 160, 162, 165, 169, 180, 184, 186, 188, 190 and +191.
22. (Original): The enzyme according to Claim 21, wherein homology to the sequence set forth in SEQ ID NO:1 is at least 20%.
23. (Original): The enzyme according to Claim 22, wherein the amino acid sequence has at least one substituted amino acid residue at a position equivalent to a position selected from the group consisting of: 2, 22, 28, 58, 65, 92, 93, 97, 105, 108, 144, 162, 180, 186 and +191.
24. (Original): A glycosyl hydrolase of Clan C comprising an amino acid sequence, the amino acid sequence being homologous to the sequence set forth in SEQ ID NO:1, the amino acid sequence having at least one substituted amino acid residue at a position equivalent to a position selected from the group consisting of: 2, 5, 7, 10, 11, 16, 19, 22, 26, 28, 29, 30, 34, 36, 38, 57, 58, 61, 63, 65, 67, 92, 93, 97, 105, 108, 110, 111, 113, 132, 143, 144, 147, 149, 151, 153, 157, 160, 162, 165, 169, 180, 184, 186, 188, 190 and +191.

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25. (Original): The glycosyl hydrolase according to Claim 24, wherein homology to the sequence set forth in SEQ ID NO:1 is at least 20%.

26. (Original): The glycosyl hydrolase according to Claim 25, wherein the amino acid sequence has at least one substituted amino acid residue at a position equivalent to a position selected from the group consisting of: 2, 22, 28, 58, 65, 92, 93, 97, 105, 108, 144, 162, 180, 186 and +191.

27. (Original): A modified family 11 xylanase comprising an amino acid sequence, the amino acid sequence being homologous to the sequence set forth in SEQ ID NO:1, the amino acid sequence having at least one substituted amino acid residue at a position equivalent to a position selected from the group consisting of: 2, 5, 7, 10, 11, 16, 19, 22, 26, 28, 29, 30, 34, 36, 38, 57, 58, 61, 63, 65, 67, 92, 93, 97, 105, 108, 110, 111, 113, 132, 143, 144, 147, 149, 151, 153, 157, 160, 162, 165, 169, 180, 184, 186, 188, 190 and +191.

28. (Original): The xylanase according to Claim 27, wherein homology to the sequence set forth in SEQ ID NO:1 is at least 20%.

29. (Original): The xylanase according to Claim 28, wherein the amino acid sequence has at least one substituted amino acid residue at a position equivalent to a position selected from the group consisting of: 2, 22, 28, 58, 65, 92, 93, 97, 105, 108, 144, 162, 180, 186 and +191.

30. (Withdrawn): A family 12 cellulase comprising an amino acid sequence, the amino acid sequence being homologous to the sequence set forth in SEQ ID NO:1, the amino acid sequence having at least one substituted amino acid residue at a position equivalent to a position selected from the group consisting of: 2, 5, 7, 10, 11, 16, 19, 22, 26, 28, 29, 30, 34, 36, 38, 57, 58, 61, 63, 65, 67, 92, 93, 97, 105, 108, 110, 111, 113, 132, 143, 144, 147, 149, 151, 153, 157, 160, 162, 165, 169, 180, 184, 186, 188, 190 and +191.

31. (Withdrawn): The cellulose according to Claim 30, wherein homology to the sequence set forth in SEQ ID NO:1 is at least 20%.

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32. (Withdrawn): The cellulose according to Claim 31, wherein the amino acid sequence has at least one substituted amino acid residue at a position equivalent to a position selected from the group consisting of: 2, 22, 28, 58, 65, 92, 93, 97, 105, 108, 144, 162, 180, 186 and +191.

33. (New): The xylanase according to Claim 12, wherein the modified xylanase comprises a substitution at position 2, 28, 58, 144 and +191.

34. (New): The xylanase according to Claim 33, further comprising a substitution at a position selected from position 22, 65, 92, 93, 97, 108, 180, and 186.

35. (New): The modified family 11 xylanase according to Claim 27, wherein the sequence homologous to the sequence set forth in SEQ ID NO:1 has at least 90% sequence identity to SEQ ID NO:1.

36. (New): The xylanase according to Claim 35, wherein the modified xylanase has a substitution at positions 2, 28, 58, 144 and +191.

37. (New): The xylanase according to Claim 36, wherein the substitution at position 144 is K or C.

38. (New): The xylanase according to Claim 36 further comprising a substitution at a position selected from position 22, 65, 92, 93, 97, 108, 180 and 186.

39. (New): The xylanase according to Claim 38, wherein the xylanase has a substitution at position 22, 92, 93, 97, 108 or 180.